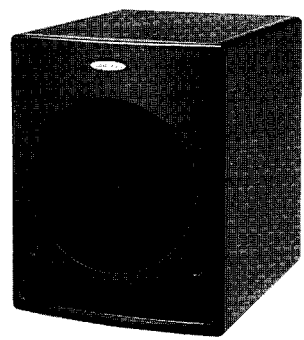
Velodyne®

DLS-3500R™
DLS-3750R™
DLS-4000R™
and
DLS-5000R™

User's Manual



DSP-Controlled Home Theater Subwoofer

Caution

To reduce the risk of electric shock, do not remove cover (or back). No user-serviceable parts inside. Refer servicing to qualified service personnel.

The lighting flash with arrowhead symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the subwoofer.

1. Read Instructions -- All safety and operating instructions should be read before the subwoofer is operated.
2. Retain Instructions -- The safety and operating instructions should be retained for future reference.
3. Heed Warnings -- All warnings on the subwoofer and in the operating instructions should be adhered to.
4. Follow Instructions -- All operating and use instructions should be followed.
5. Water and Moisture -- The subwoofer should not be used near water -- for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, near a swimming pool or the like.
6. Carts and Stands -- The subwoofer should be used only with a cart or stand recommended by the manufacturer.
7. Wall or Ceiling Mounting -- The subwoofer should be mounted to a wall or ceiling only as recommended by the manufacturer.
8. Ventilation -- The subwoofer should be situated so that its location or position does not interfere with its proper ventilation. For example, the subwoofer should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or placed in a built-in installation such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
9. Heat -- The subwoofer should be situated away from heat sources such as radiators, heat registers, stoves, or other subwoofers that produce heat.
10. Power Sources -- The subwoofer should be connected to a power supply only of the type described in the operating instructions or as marked on the subwoofer.
11. Power-Cord Protection -- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point at which they exit from the subwoofer.
12. "Caution: To prevent electrical shock, match wide blade of plug to wide slot, fully inserted." "Attention: Pour eviter les chocs electriques, introduire lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu' au fond".
13. Cleaning -- The subwoofer should be cleaned only as recommended by the manufacturer.
14. Nonuse Periods -- The power cord of the subwoofer should be unplugged from the outlet when left unused for a long period of time.
15. Object and Liquid Entry -- Care should be taken so that objects do not fall and liquids are not spilled onto the enclosure.
16. Damage Requiring Service -- The subwoofer should be serviced by qualified service personnel when:
    a. The power-supply cord or plug has been damaged.
    b. Objects have fallen or liquid has been spilled into the subwoofer.
    c. The subwoofer has been exposed to rain.
    d. The subwoofer does not appear to operate normally or exhibits a marked change in performance.
    e. The subwoofer has been dropped or damaged.
17. Servicing -- The user should not attempt to service the subwoofer beyond what is described in the operating instructions.

    All other servicing should be referred to qualified service personnel.

Congratulations!

Congratulations on your purchase of a Velodyne Distortion Limiting System™ Remote (DLS-R) subwoofer. This system represents the state-of-the-art in low frequency reproduction. Read and follow the instructions below to insure safe and proper system operation.

Warning!

To prevent fire or shock hazard, do not expose this equipment to rain or moisture. To avoid electrical shock, do not open speaker enclosure or amp chassis cover. Please observe all warnings on the equipment itself. There are no user serviceable parts inside. Please refer all service questions to your authorized Velodyne dealer.

Prior to Installation

Please unpack the system carefully. Remove all staples used to seal the carton as they can scratch the cabinet. Please save the carton and all packaging materials for future use. Record the serial number in the space provided on the warranty card for future reference.

Product Features and Controls

- DSP-controlled
- 4 selectable presets for customized listening mode
- Night-mode setting
- Mute control
- Built-in 160 watt (RMS) power amplifier (DLS-3500R)
- Built-in 175 watt (RMS) power amplifier (DLS-3750R)
- Built-in 200 watt (RMS) power amplifier (DLS-4000R)
- Built-in 600 watt (RMS) power amplifier (DLS-5000R)
- Adjustable (40 to 120 Hz) low-pass crossover with Subwoofer Direct setting
- Speaker-level inputs and outputs
- 85 Hz high-pass crossover
- Line-level inputs
- Signal sensing auto turn on/off with bypass option
- Variable volume control
- Selectable phase control (0, 90, 180, or 270 degrees)
- Dual staggered low-pass crossover; 12 dB/octave initial, 24 dB/octave ultimate

continued. . .

- Anti-clipping circuit
- Over excursion protection
- Slot loaded design

Installation

Your new subwoofer system provides for a number of installation options. Read all the installation information below in order to determine which installation option is best for your system. Remember to perform all installation procedures with system power turned off.

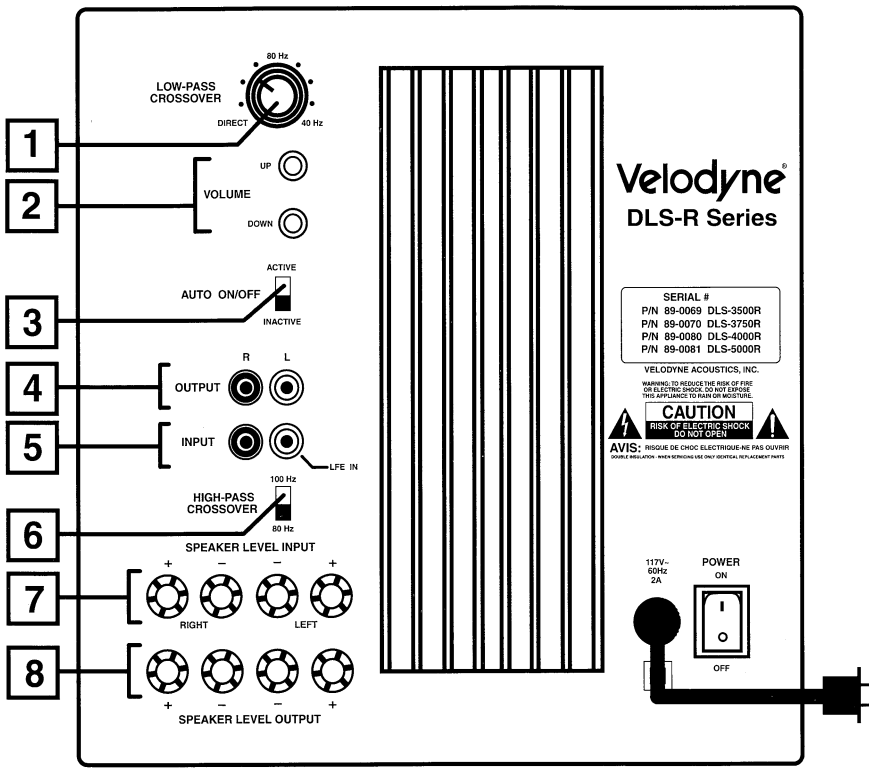


Figure 1. DLS-R Rear Panel Connections

Rear Panel Connections

Figure 1 shows the connections on the rear panel of the DLS-R.

Following are brief descriptions of the connections described in Figure 1. More detail on these connections can be found on the next page.

(1) LOW-PASS CROSSOVER

Use this knob to select the high-frequency range at which you wish to cut off the signal to the subwoofer. When the knob is turned all the way to the left, the Subwoofer Direct feature is invoked and the subwoofer plays all frequencies up to 200 Hz.

(2) VOLUME Control

This control allows you to balance the output from the subwoofer to the main speakers in your system. This control should be set to achieve similar volume level from between both the main speakers and subwoofer. When pressing volume up or down, the speed at which the power light blinks indicates subwoofer volume - the faster the blinking, the louder the unit plays.

Note: Volume is also controllable by using the supplied remote.

(3) AUTO ON/OFF Switch

Use this switch to select between auto-on (active) and constant on (inactive) operation.

(4) LINE OUTPUT

Connect these jacks to the LINE IN preamp input to use the DLS-R's internal high pass crossover. See below for a more detailed explanation of this crossover.

(5) LINE INPUT/LFE Input

Connect these jacks to the LINE OUT preamp output, LFE output, or subwoofer output jacks of your receiver/processor. If using the LFE output from your receiver or processor, plug the single cable into the "L" – LFE input or, for more signal, use a "Y" connector and feed the signal into both "R" and "L" inputs.

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(6) HIGH PASS CROSSOVER Switch

This switch selects the frequency for the high pass crossover. This crossover is functional on both line and speaker-level outputs. Smaller speakers with limited low frequency output may perform better using the higher 100 Hz setting that will reduce the low frequencies sent to them. Larger speakers with greater low frequency output may be able to handle the 80 Hz setting without strain.

(7) SPEAKER LEVEL INPUT Terminals

Connect these input terminals to the speaker output terminals of your amplifier or receiver. If you use this method of connection, when you go to the receiver speaker set up menu, make sure you select the large speaker option

(8) SPEAKER LEVEL OUTPUT Terminals

Sends a crossed-over speaker-level signal to the front speakers. See below for a more detailed explanation of this crossover.

Rear Panel Connections – Detailed Explanation

Your new subwoofer is equipped with both speaker-level and line-level inputs. Use the RCA/Phono type "INPUT" jacks when connecting your subwoofer to a pre-amp, signal processor, or line-level crossover. The "SPEAKER LEVEL INPUT" jacks connect directly to the speaker outputs of an integrated amplifier or receiver. Your amplifier section will notice no additional loading effects when you use these inputs because of their high impedance.

Note:

Do not use both the RCA/Phono "INPUT" connections and "SPEAKER LEVEL INPUT" connections simultaneously.

Low-Pass Crossover

Both sets of inputs sum the left and right channels together and the resulting signal is passed through an adjustable low-pass crossover before being amplified. The crossover control allows you to adjust the upper limit of the subwoofer's frequency response from 40 to 120 Hz. The subwoofer's response will begin rolling off above the frequency you set this control to.

You should set the crossover frequency to obtain a smooth and seamless transition from the subwoofer to the main speakers in your system. If your main speakers are smaller units with limited low frequency output, you may wish to choose a higher frequency (such as 100-120 Hz) than you would with larger speakers which have greater low frequency output. With larger speakers, you might start with this control set lower, such as 80 Hz.

Subwoofer Direct

Subwoofer Direct is a setting on the low-pass crossover knob and will allow frequencies up to 200 Hz into the subwoofer. See below for a more detailed explanation of this feature.

Speaker Level Output/Line Level Output

When connected in this fashion, your satellite speakers will be crossed over at 80 Hz. This removes the lower bass from your satellites, enabling them to do a better job reproducing high frequencies and giving your receiver's amp more headroom (up to 50% more power).

You may also connect your satellites directly to your receiver or amplifier along with the subwoofer if you wish to bypass this crossover.

Caution!!!

To avoid damage to your main amplifier, be sure to maintain correct polarity when making all connections. Red (positive) to red, and black (negative) to black. Be sure that all connections are tight, and that there are no loose strands or frayed wires.

Power Switch

The master power switch is located on the lower right half of the unit. This rocker style switch is the main on/off for the unit. This switch should be set to position 1 for on (up), 0 for off (down).

A Word About Your Receiver's Crossover and the DLS-R Crossover

Your Velodyne DLS-R subwoofer is designed to operate using the full range audio signal for input when using the built-in crossover (controlled by the dial on the back panel). Many home theater processors/receivers (Dolby Digital®, DTS®, THX®) have a "subwoofer

continued. . .

out" jack that performs this same function and are designed to be used with a powered subwoofer.

In these installations, you may want to bypass the crossover in either the processor or the Velodyne subwoofer. In some cases, you may want to use BOTH crossovers. To do this, you can use both your processor's crossover and the one internal to the Velodyne sub. You should stagger the frequencies (i.e., 120 Hz subwoofer, 80 Hz processor) for best results.

To bypass the subwoofer's internal crossover when the unit is being fed a low pass signal from another crossover, simply locate the knob marked "LOW-PASS CROSSOVER" on the rear panel of the subwoofer and turn it counterclockwise to the "DIRECT" position. This will eliminate the internal crossover from the signal path.

Note:
If not using an external crossover, you should use the built-in crossover for optimal performance. When using a single RCA sub out from the processor, it does not matter which line level input (L/R) is used.

Interconnect Cables

When installing your new Velodyne subwoofer using the line-level connections, you should always use shielded phono cables. There are many decent cables available today, most any of which will work perfectly well. We do recommend that you keep the length of cable as short as possible to avoid any potential noise problems.

When using speaker level connections, use a quality speaker cable that mates well with the connectors (at least 14-gauge). Be very careful to avoid any loose or frayed strands that could result in a short, causing a dangerous condition and possible damage to your unit. Cables of extremely large size are typically not required. Extremely large gauge wire may not properly fit in the binding posts, resulting in a poor connection and possible short circuits.

Placement

True subwoofers operate at extremely low frequencies, which are primarily omni-directional. While it is recommended that the subwoofers be placed on the same plane as the satellite speakers,

room and system conditions often dictate otherwise. Keep in mind that frequency response and output level can be drastically influenced by placement, depending on the acoustic properties of your listening room. Typically, the optimum location for a subwoofer is in a front corner of your listening room. This location will usually offer the greatest output levels and optimum low frequency extension. The worst location for a subwoofer is typically far away from any walls, close to the center of your room and near an opening or door way. Avoid these locations when possible. When using a pair of Velodyne subwoofers in stereo, it is preferable to place each subwoofer near the satellite of the same channel. Typically, a minimum distance of 1 to 2 feet from your TV to the subwoofer will be adequate to avoid any magnetic interference.

Caution!

This subwoofer has electronics built into the cabinet. Do not place the cabinet next to sources of heat such as furnace registers, radiators, etc. Do not place the unit near sources of excessive moisture, such as evaporative coolers, humidifiers, etc. The power cord should be routed in such a way that it will not be walked on, pinched, or compressed in any way that could result in damaging the insulation or wire.

continued. . .

Usage

This section addresses day-to-day usage of your DLS-R subwoofer.

Remote Control

Figure 2 shows the remote control, enabling you to easily choose whatever listening mode you desire.

Figure 2. Remote Display

POWER - This button forces your DLS-R unit into standby mode. The woofer will not play and the LED will turn off. The unit will remain in this mode until the POWER button is pressed again. To fully deactivate (i.e. power down) the unit, turn off the power switch on the back panel.

MUTE - This button mutes the subwoofer. The light on the subwoofer will blink slowly if the unit is muted. To unmute the subwoofer, press the MUTE button again.

PHASE - These buttons allow you to optimize the subwoofer performance for the location and your listening position. Select the switch position at which you hear the most bass. The light will blink according to the following schedule:

0 degrees	1 blink
90 degrees	2 blinks
180 degrees	3 blinks
270 degrees	4 blinks

LIGHT - If you wish, you can deactivate the blue front panel lights on your DLS-R unit. To do this, press the LIGHT button on your remote. The light will turn off. To reactivate the light, press the LIGHT button again.

NIGHT - Night mode limits the maximum output of the subwoofer for later night listening or to be more considerate of close neighbors. Press the night button to turn the night mode feature on or off. Night mode, when active, is indicated by the reduced intensity of the light.

VOLUME Control - This control allows you to balance the output from the subwoofer to the main speakers in your system. This control should be set to achieve similar volume level from between both the main speakers and subwoofer. When pressing volume up or down, the speed at which the power light blinks indicates subwoofer volume - the faster the blinking, the louder the unit plays.

Note: The volume can also be adjusted via the buttons on the back panel of the subwoofer. These buttons have the same effect as pressing the up and down volume buttons on your remote.

PRESETS - There are 4 presets, consisting of Movies, R&B – Rock, Jazz – Classical, and Games. As a preset is chosen, the light flashes the corresponding number of times. The presets provide the following characteristics for bass reproduction:

Movies:	Maximum output and impact for explosions and other action adventure movie content.
R&B – Rock:	Provides the driving bass found in today's rock music.

Jazz – Classical:	The tightest, cleanest, lowest distortion bass.
Games:	Maximum loudness available for the impact of video games.

The following table indicates musical style and which preset is recommended for it.

MUSICAL STYLE	SUGGESTED PRESET
Action Adventure Movies	Movies
Country – Rock	R&B – Rock
Country – Soft	Jazz – Classical
Folk	Jazz – Classical
Indie Music	R&B – Rock
Pop	R&B – Rock
Rock	R&B – Rock
Alternative Rock	Jazz – Classical
Blues	Jazz – Classical
Broadway and Vocalists	Jazz – Classical
Children's Music	Jazz – Classical
Christian & Gospel	Jazz – Classical
Classic Rock	R&B – Rock
Classical	Jazz – Classical
Dance and DJ	R&B – Rock
Hard Rock & Metal	R&B – Rock
Latin Music	R&B – Rock
Miscellaneous	Jazz – Classical
Movies – Non-Action Adventure	Jazz – Classical
New Age	Jazz – Classical
Opera and Vocal	Jazz – Classical
R&B	R&B – Rock
Rap and Hip-Hop	R&B – Rock
Soundtracks	R&B – Rock or Jazz – Classical
Video Games	Games

Each preset has its own characteristics with respect to subsonic filter, volume differential, and a single equalizer (EQ) in order to optimize the listening mode for the preset.

The following table shows the settings for various presets:

Preset	Subsonic Filter Frequency	EQ Frequency	EQ Level	Volume Differential
Movies	24 Hz	37 Hz	+4 dB	+8 dB
R&B – Rock	27 Hz	52 Hz	+3 dB	+5 dB
Jazz – Classical (Reference)	24 Hz	N/A	N/A	N/A
Games	34 Hz	62	+4 dB	+4 dB

RESTORE DEFAULTS - This feature allows you to restore default settings for your DLS-R subwoofer. By pressing Presets in EXACTLY the following order on the remote, the unit's power light will blink three times indicating that you have restored defaults.

1. Movies
2. R&B – Rock
3. Jazz – Classical
4. Games
5. Games
6. Jazz – Classical
7. R&B – Rock
8. Movies

When you press the presets in the above order, the power light will blink three times indicating that you have restored defaults. The default preset is Jazz/Classical, and the unit's volume is reset to level 35 (out of 100).

Care of Your Subwoofer

Do not use any harsh detergents or chemicals to clean the cabinet. Abrasives, detergents, or cleaning solutions will damage the finish on the cabinet. We recommend using a damp cloth to clean the front, back and sides. Use a soft cloth with a good quality furniture polish to clean the hand-rubbed, black lacquer, painted top.

During normal conditions, the subwoofer may be left on continuously without any problems. If you plan to leave the unit unused for an extended period of time, we recommend that you turn off the unit by the master power switch on the rear panel.

Troubleshooting and Service

Before seeking service for your subwoofer, please re-check all systems. Following is a simple troubleshooting guide to assist you.

1. Verify that the unit is plugged in and power outlet used is active.
2. Is the power switch on?
3. Is unit receiving an input signal from your source?
4. Have all controls on subwoofer (volume, crossover, phase, etc.) been properly set?
5. If unit has been running at high levels, one of the protection circuits may be engaged.
6. Has the built-in amplifier overheated?

If the protection circuitry is active, the unit may cycle on and off until operating parameters return to normal. Under more serious conditions, the unit may shut off completely. Normal operation will return upon cooling, but you may be required to turn the power off and then on again to reset the unit.

The following conditions require service by a qualified technician:

1. The power cord has become damaged.
2. The unit does not appear to operate normally or exhibits a marked change in performance.
3. The unit has been exposed to water.
4. Some part of the cabinet or circuitry is physically damaged.

Thank You for Purchasing a Velodyne!

SPECIFICATIONS	DLS-3500R	DLS-3750R	DLS-4000R	DLS-5000R
Cabinet (H,W,D) (cm)	15" x 12" x 15.75" 37.5 x 30 x 39	16" x 15" x 17.75" 40 x 37.5 x 44	18" x 15" x 19" 45 x 37.5 x 47.5	21" x 18.4" x 20.75" 52.5 x 46 x 52
Frequency Response	35Hz-140 Hz (+/-3 dB)	28Hz-120 Hz (+/-3 dB)	25Hz-120 Hz (+/- 3 dB)	23 Hz - 120 Hz (+/-3 dB)
High Pass Crossover	80 Hz or 100 Hz (6 dB/octave slope)			
Low Pass Crossover	40 Hz -120 Hz (12 dB/octave, 24 dB ultimate)			
Amplifier (Class A/B)	350 watts Dynamic/ 160 watts RMS power	375 watts Dynamic/ 175 watts RMS power	400 watts Dynamic/ 200 watts RMS power	1200 watts Dynamic/ 600 watts RMS power
Woofer	8" forward firing	10" forward firing	12" forward firing	15" forward firing
Magnet	40 oz.	40 oz.	55 oz.	70 oz.
Voice Coil	2" two-layer copper	2" four-layer copper	2" four-layer copper	2.5" four-layer copper
Inputs	Line-level and speaker-level			
Outputs	Line-level and speaker-level			
Warranty	Two years (parts and labor)			
Weight (approx.)	44 lbs. (20 kg)	53 lbs. (24 kg)	60 lbs. (27 kg)	83 lbs. (38 kg)

FOR YOUR RECORDS. . .

Date Puchased_____

Dealer_____

Serial #_____

**NOTE: Please complete and return your warranty card within ten (10) days or*

Register. . . ON LINE . . . It's faster . . . and easier
www.velodyne.com

LIMITED WARRANTY

VELODYNE ACOUSTICS, Inc. ("VELODYNE") warrants all powered subwoofers for a period of two years, and full range speakers for a period of five years. All VELODYNE products have a warranty from the date of purchase against defects in materials and workmanship subject to the following conditions:

1. VELODYNE is not responsible for defects which result from the use of an amplifier or controller other than the one originally supplied with the unit (subwoofer) or defects which result from modifications or repairs made by any component of the system by anyone other than a VELODYNE factory authorized service representative.
2. This warranty is void if any repairs or service covered by the terms of this warranty are made to any component of the system by anyone other than a VELODYNE factory authorized service representative..
3. VELODYNE is not responsible for damage caused by accidents, abuse, misuse, natural or personal disaster or unauthorized modification. The VELODYNE products are not intended for professional or commercial use and VELODYNE is not responsible for damage resulting from such use.
4. The VELODYNE product warranty is limited to units that are purchased from authorized VELODYNE dealers and finalized within authorized dealer locations.
5. This warranty is nontransferable under any condition.

TO OBTAIN SERVICE

Information regarding service may be obtained from the dealer from whom you purchased the unit, or by contacting VELODYNE customer service. Warranty service must be performed by a VELODYNE factory authorized service representative within the warranty period set forth above. If VELODYNE determines the unit is defective, VELODYNE will, at VELODYNE's option, repair or replace the product at no charge if the product is forwarded prepaid to a factory authorized service representative. Products forwarded to the factory authorized service representative should be shipped securely and properly packaged, insured, and freight prepaid.

Notes

"Not only was the little Velodyne the best small sub I've ever used, it was one of the very best subs I've used."

-John Potis
SoundStage!, April 2002

Other Velodyne Subwoofer Products:

VRP Series ™
VRP-1000
VRP-1200

DPS Series ™
DPS-10
DPS-12

SPL Series II ™
SPL-800 Series II
SPL-1000 Series II
SPL-1200 Series II

HGS-X Series ™
HGS-10X
HGS-12X
HGS-15X

Digital Drive Series ™
DD-10
DD-12
DD-15 THX Ultra 2
DD-18 THX Ultra 2
Digital Drive 1812 Signature Edition ™

Deco System
Deco System
Deco Satellites

VX-10

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63-DLSR RevB 22JUN04

return address

place
stamp
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345 Digital Drive
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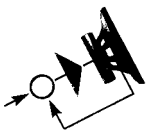

Velodyne® OWNERS REGISTRATION

1. Name _____ Street _____
   City _____ State _____ Zip _____
   Phone _____ Alternate Phone _____
   E-mail _____

2. Product Model _____ S/N _____
   Date Purchased _____ Purchase Price _____

3. Dealer Name _____ Address _____
   City _____ State _____ Zip _____

4. Comments: _____
   _____

5. Would you like to be notified of new Velodyne products or special promotions via email? ❑ Yes ❑ No

6. Age: ❑ Under 18 ❑ 18-24 ❑ 25-29 ❑ 30-34 ❑ 35-44 ❑ 45-54 ❑ 55-64 ❑ 65+
   Marital Status: ❑ Married ❑ Single

7. Why did you choose your Velodyne product? (check all that apply)
   ❑ Performance ❑ Price ❑ Dealer Recommendation ❑ Friends Recommendation
   ❑ Magazine Review ❑ Magazine Ad ❑ Other _____

8. I learned about this product through: ❑ Sales Person ❑ Distributor ❑ Industry Contact
   ❑ Print/Advertisement ❑ Magazine Review ❑ Internet Review ❑ Velodyne Website
   ❑ Other Website _____ ❑ Audio Forum/Chat Room
   ❑ Trade Show ❑ Friend/Relative Recommendation ❑ Other _____

9. I purchased the product because: (check all that apply) ❑ Promotion ❑ Performance
   ❑ Technical Specifications ❑ Appearance ❑ Price ❑ Reputation/Brand Name ❑ Availability
   ❑ Technical Support ❑ Durability ❑ Prior Experience with Velodyne ❑ Review
   ❑ Friend's Recommendation/Audition ❑ Other recommendation

10. What other brands did you consider? _____

11. Home theater or audio magazines I read: ❑ The Absolute Sound ❑ Home Theater ❑ The Perfect Vision
    ❑ Home Entertainment & Design ❑ The Sensible Sound ❑ Guide to Home Theater ❑ Stereophile
    ❑ Sound & Vision ❑ Other _____

12. Audio or home theater websites I visit _____

13. Primary use: ❑ Home Theater ❑ Music

14. Please describe your stereo system: ❑ Tuner/Receiver _____ ❑ TV _____
    ❑ Size _____ ❑ Amplifier _____ ❑ Satellite Speakers _____

Velodyne®

Velodyne Distortion Limiting System™ R (DLS-R) Series Subwoofers

Additional Information

This sheet provides additional information on the DLS-3500R, DLS-3750R, DLS-4000R and DLS-5000R subwoofers.

Restore Defaults. There is a feature not documented in the user's manual that allows you to restore default settings for your DLS-R Subwoofer. By pressing Presets in EXACTLY the following order on the remote, the unit's power light will blink three times indicating that you have restored defaults.

1. Movies
2. R&B – Rock
3. Jazz – Classical
4. Games
5. Games
6. Jazz – Classical
7. R&B – Rock
8. Movies

When you press the presets in the above order, the power light will blink three times indicating that you have restored defaults. The default preset is Jazz/Classical, and the unit's volume is reset to level 35 (out of 100).

Presets. This section discusses the four presets that come preprogrammed into your DLS-R unit. Each preset has its own characteristics with respect to subsonic filter, volume differential, and a single EQ in order to optimize the listening mode for the preset.

The following table shows the settings for various presets:

Preset	Subsonic Filter Frequency	EQ Frequency	EQ Level	Volume Differential
Movies	24 Hz	37 Hz	+4 dB	+8 dB
R&B – Rock	27 Hz	52 Hz	+3 dB	+5 dB
Jazz – Classical (Reference)	24 Hz	N/A	N/A	N/A
Games	34 Hz	62	+4 dB	+4 dB

Enjoy Your DLS-R Subwoofer!